

### IN THE CLAIMS

Please amend claims 1, 15, 39, and 40. Please cancel claims 17-38 and 41. Please add new claims 42-99. A complete listing of the claims follows below.

1. (Currently Amended) A method of accessing a wireless multiple-access communication system, comprising:

receiving at least one broadcast message including information regarding configuration of at least two contention-based random access channels for a frame;

determining a current operating state of a terminal;

selecting one contention-based random access channel from among at least two contention-based random access channels based on the current operating state; and

transmitting a message on the selected random access channel to access the system during the frame.

2. (Original) The method of claim 1, wherein the at least two random access channels include a first random access channel used by registered terminals for system access and a second random access channel used by registered and unregistered terminals for system access.

3. (Original) The method of claim 2, wherein transmissions on the first random access channel are compensated for propagation delay.

4. (Original) The method of claim 1, wherein the current operating state is indicative of whether or not the terminal has registered with the system.

5. (Original) The method of claim 1, wherein the current operating state is indicative of whether or not the terminal can compensate for propagation delay to an access point receiving the message.

6. (Original) The method of claim 1, wherein the current operating state is indicative of whether or not a particular received signal-to-noise ratio (SNR) is achieved for the terminal.

7. (Original) The method of claim 1, further comprising:  
retransmitting the message until an acknowledgment is received for the message or a maximum number of access attempts has been exceeded.
8. (Original) The method of claim 1, further comprising:  
if access is not gained via the selected random access channel, transmitting another message on another random access channel selected from among the at least two random access channels.
9. (Original) The method of claim 1, wherein the transmitting includes  
selecting a slot from among a plurality of slots available for the selected random access channel, and  
transmitting the message in the selected slot.
10. (Original) The method of claim 1, wherein the message includes an identifier for the terminal.
11. (Original) The method of claim 10, wherein the identifier is unique to the terminal.
12. (Original) The method of claim 10, wherein the identifier is a common identifier used by unregistered terminals.
13. (Original) The method of claim 1, wherein the multiple-access communication system supports terminals with single antenna and terminals with multiple antennas.
14. (Original) The method of claim 1, wherein the multiple-access communication system uses orthogonal frequency division multiplexing (OFDM).

15. (Currently Amended) A method of accessing a wireless multiple-access multiple-input multiple-output (MIMO) communication system, comprising:
- determining whether a terminal is registered or unregistered with the system;
  - if the terminal is registered, transmitting a first message on a first contention-based random access channel to access the system; and
  - if the terminal is unregistered, transmitting a second contention-based message with a different format than the first message on a second random access channel to access the system.
16. (Original) The method of claim 15, wherein the first message is transmitted in a manner to account for propagation delay to an access point receiving the first message.
17. (Cancelled)
18. (Cancelled)
19. (Cancelled)
20. (Cancelled)
21. (Cancelled)
22. (Cancelled)
23. (Cancelled)
24. (Cancelled)
25. (Cancelled)
26. (Cancelled)

27. (Cancelled)

28. (Cancelled)

29. (Cancelled)

30. (Cancelled)

31. (Cancelled)

32. (Cancelled)

33. (Cancelled)

34. (Cancelled)

35. (Cancelled)

36. (Cancelled)

37. (Cancelled)

38. (Cancelled)

39. (Currently Amended) A terminal in a wireless multiple-access communication system, comprising:

a controller operative to determine a current operating state of the terminal and to select one contention-based random access channel from among at least two contention-based random access channels for use to access the system based on the current operating state and to process

an assignment, received responsive to the message, to utilize at least one channel, other than the at least two contention based random access channels, for data transmission; and

a data processor operative to process a message for transmission on the selected contention-based random access channel.

40. (Currently Amended) An apparatus in a wireless multiple-access communication system, comprising:

means for determining a current operating state of the apparatus;

means for selecting one contention-based random access channel from among at least two random access channels based on the current operating state both of which are different from channels used for data transmission by the apparatus; and

means for transmitting a message on the selected contention-based random access channel to access the system.

41. (Cancelled)

42. (New) The method of claim 1, wherein receiving the at least one broadcast message comprises receiving at least two broadcast messages each associated with a different of the at least two random access channels.

43. (New) The method of claim 1, further comprising determining a slot to transmit the message on the one contention-based random access channel based upon a slot assigned to the at least one contention-based random access channel in the at least one broadcast message and wherein transmitting comprises transmitting the message in the slot of the frame.

44. (New) The method of claim 1, wherein transmitting the message comprises transmitting the message on a set of subbands of a plurality of subbands of the one contention-based random access channel.

45. (New) The method of claim 1, wherein the message transmitted on the one contention-based random access channel comprises one OFDM symbol.
46. (New) The method of claim 1, wherein the message transmitted on the one contention-based random access channel comprises four OFDM symbols.
47. (New) The method of claim 1, wherein the message transmitted on the one contention-based random access channel comprises two OFDM symbols.
48. (New) The method of claim 1, wherein determining the current operating state of a terminal comprises determining if the terminal is scheduled and the method further comprising utilizing a data channel, and not selecting one contention-based random access channel, for transmission.
49. (New) The method of claim 1, wherein a first contention-based random access channel of the at least two contention-based random access channels corresponds to a contention-based random access channel used by a terminal after acquiring system frequency, wherein determining comprises determining whether the terminal has acquired the system frequency, and wherein selecting comprises selecting the first contention-based random access channel as the one contention-based random access channel when the terminal has acquired the system frequency and is not registered.
50. (New) The method of claim 1, wherein transmitting the message comprises transmitting a different message format on each of the at least two contention-based random access channels.
51. (New) The method of claim 1, further comprising receiving an assignment responsive to the message from a base station.
52. (New) The method of claim 51, wherein receiving the assignment comprises receiving an acknowledgement in a message including the assignment.

53. (New) The method of claim 51, further comprising determining scheduling information of the assignment for a channel distinct from the at least two contention-based random access channels.
54. (New) The method of claim 1, wherein:  
determining comprises determining whether the terminal is not registered with the system;  
selecting comprises selecting the one contention-based random access channel to register with system, if the terminal is unregistered; and  
transmitting comprises transmitting the message as a request to register with the system.
55. (New) The method of claim 15, further comprising receiving information corresponding to parameters conveying configuration information for the first contention-based random access channel.
56. (New) The method of claim 55, wherein the information is received via a broadcast message.
57. (New) The method of claim 56, further comprising receiving information corresponding to parameters conveying configuration information for the second contention-based random access channel in another broadcast message different than the broadcast message.
58. (New) The method of claim 55, further comprising determining a slot to transmit the message on the first contention-based random access channel based upon the parameters and wherein transmitting comprises transmitting the first message in the slot.
59. (New) The method of claim 15, wherein the second message comprises one OFDM symbol.

60. (New) The method of claim 15, wherein the first message comprises four OFDM symbols.
61. (New) The method of claim 15, wherein the first message comprises two OFDM symbols.
62. (New) The method of claim 15, further comprising receiving an assignment responsive to the message from a base station.
63. (New) The method of claim 62, wherein receiving the assignment comprises receiving an acknowledgement in a message including the assignment.
64. (New) The method of claim 62, further comprising determining scheduling information of the assignment for a channel distinct from the at least two contention-based random access channels.
65. (New) The terminal of claim 39, wherein the controller is operative determine the current operating state based upon whether or not the terminal has registered with the system.
66. (New) The terminal of claim 39, wherein the controller is operative to determine the current operating state based upon whether or not the terminal can compensate for propagation delay to an access point receiving the message.
67. (New) The terminal of claim 39, wherein the controller is operative to determine the current operating state based upon a received signal-to-noise ratio (SNR) is achieved for the terminal.
68. (New) The terminal of claim 39, wherein the data processor is operative to process the message to include an identifier for the terminal.



69. (New) The terminal of claim 68, wherein the identifier is unique to the terminal.
70. (New) The terminal of claim 68, wherein the identifier is a common identifier used by unregistered terminals.
71. (New) The terminal of claim 39, wherein the controller is operative to process received information corresponding to parameters conveying configuration information for the at least two contention-based random access channels.
72. (New) The terminal of claim 71, wherein the information is received via a broadcast message.
73. (New) The terminal of claim 71, wherein information for each of the at least two contention-based random access channels is received in different broadcast messages.
74. (New) The terminal of claim 39, wherein the data processor is operative to process the message for transmission on a set of subbands of a plurality of subbands of the one contention-based random access channel.
75. (New) The terminal of claim 39, wherein the data processor is operative to process the message to comprise one OFDM symbol.
76. (New) The terminal of claim 39, wherein the data processor is operative to process the message to comprise four OFDM symbols.
77. (New) The terminal of claim 39, wherein the data processor is operative to process the message to comprise two OFDM symbols.

78. (New) The terminal of claim 39, wherein the data processor is operative to process the message to be of a different message format on each of the at least two contention-based random access channels.
79. (New) The terminal of claim 39, wherein the controller is operative to process an acknowledgement in a message including the assignment.
80. (New) The terminal of claim 39, wherein the at least one channel other than the at least two contention based random access channels is a forward link data channel and the controller is operative to communicate using forward link data channel.
81. (New) The terminal of claim 39, wherein the at least one channel other than the at least two contention based random access channels is a reverse link data channel and the controller is operative to communicate using forward link data channel.
82. (New) The apparatus of claim 40, wherein the means for determining the current operating state comprises means for determining the operating state based upon whether or not the terminal has registered with the system.
83. (New) The apparatus of claim 40, wherein the means for determining the current operating state comprises means for determining the operating state based upon whether or not the terminal can compensate for propagation delay to an access point receiving the message.
84. (New) The apparatus of claim 40, wherein the means for determining the current operating state comprises means for determining the operating state based upon a received signal-to-noise ratio (SNR) is achieved for the terminal.
85. (New) The apparatus of claim 40, wherein the means for transmitting is configured to retransmit the message until an acknowledgment is received for the message or a maximum number of access attempts has been exceeded.

86. (New) The apparatus of claim 40, wherein the means for selecting comprises means for, if access is not gained via the selected random access channel, selecting another random access channel selected from among the at least two random access channels.
87. (New) The apparatus of claim 40, wherein the means for transmitting comprises means for transmitting the message to include an identifier for the terminal.
88. (New) The apparatus of claim 85, wherein the identifier is unique to the terminal.
89. (New) The apparatus of claim 87, wherein the identifier is a common identifier used by unregistered terminals.
90. (New) The apparatus of claim 40, further comprising means for processing received information corresponding to parameters conveying configuration information for the at least two contention-based random access channels.
91. (New) The apparatus of claim 90, wherein the information is received via a broadcast message.
92. (New) The apparatus of claim 91, wherein information for each of the at least two contention-based random access channels is received in different broadcast messages.
93. (New) The apparatus of claim 40, wherein means for transmitting comprises means for transmitting for the message on a set of subbands of a plurality of subbands of the one contention-based random access channel.
94. (New) The apparatus of claim 40, wherein means for transmitting comprises means for transmitting for the message on one OFDM symbol.

95. (New) The apparatus of claim 40, wherein means for transmitting comprises means for transmitting for the message on four OFDM symbols.

96. (New) The apparatus of claim 40, wherein means for transmitting comprises means for transmitting for the message on two OFDM symbols.

97. (New) The apparatus of claim 40, further comprising means for receiving an assignment responsive to the message from a base station.

98. (New) The apparatus of claim 97, wherein the means for receiving the assignment comprises means for receiving an acknowledgement in a message including the assignment.

99. (New) The apparatus of claim 97, further comprising means for determining scheduling information of the assignment for the data channel distinct from the at least two contention-based random access channels.